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L43: Entry 1 of 1

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TITLE: STAINLESS STEEL COATED WITH INTERMETALLIC COMPOUND AND PROCESS FOR PRODUCING THE SAME

PUBN-DATE: May 20, 1999

INVENTOR-INFORMATION:

NAME	COUNTRY
YOSHIDA, HIROAKI	JP
YAMADA, HIROSHI	JP
IWANE, FUMIO	JP
IMAI, JUNJI	JP
HAMADA, TADASHI	JP
FUJIMOTO, SHINJI	JP
YAMADA, SHUJI	JP
SAKON, SHIGETOSHI	JP

ASSIGNEE-INFORMATION:

NAME	COUNTRY
DAIDO STEEL CO LTD	JP
MATSUSHITA ELECTRIC WORKS LTD	JP
YOSHIDA HIROAKI	JP
YAMADA HIROSHI	JP
IWANE FUMIO	JP
IMAI JUNJI	JP
HAMADA TADASHI	JP
FUJIMOTO SHINJI	JP
YAMADA SHUJI	JP
SAKON SHIGETOSHI	JP

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INT-CL (IPC): C23 C 10/28

EUR-CL (EPC): C23C026/00; C23C028/02

ABSTRACT:

CHG DATE=19990702 STATUS=O>A stainless steel coated with an intermetallic compound and excellent in rigidity, toughness, wearing resistance, and corrosion resistance,

which comprises a base made of a martensitic stainless steel having a Vickers hardness of 400 or higher and a hard coating whose lower side is tightly adherent to the base while the upper side is exposed. The hard coating has the outermost layer made of any one of a Ti-Ni intermetallic compound, a Ti-Fe intermetallic compound, and a mixture of a Ti-Ni intermetallic compound with a Ti-Cu intermetallic compound. The coated stainless steel is produced by cladding a martensitic stainless steel with titanium or a titanium alloy either directly or through an interlayer made of nickel, iron, or a Ni-Cu alloy to prepare a laminate, holding this laminate at 900 to 1,150 DEG C for 30 seconds to 5 minutes, and then cooling it at a rate of 1 DEG C/sec or higher.

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)